**TRANSMITTAL FORM**

Attorney Docket No.

2808P

In re the application of Paul NGUYEN, et al.

Confirmation No: **5493**Serial No: **10/649,119**Group Art Unit: **2832**Filed: **August 26, 2003**Examiner: **To Be Assigned**For: **MAGNETIC MEMORY ELEMENT UTILIZING SPIN TRANSFER SWITCHING AND STORING
MULTIPLE BITS****ENCLOSURES (check all that apply)**

| | | | | | |
|-------------------------------------|-------------------------------------|--|--|-------------------------------------|---|
| <input type="checkbox"/> | Amendment/Reply | <input type="checkbox"/> | Assignment and Recordation Cover Sheet | <input type="checkbox"/> | After Allowance Communication to Group |
| <input type="checkbox"/> | After Final | <input type="checkbox"/> | Part B-Issue Fee Transmittal | <input type="checkbox"/> | Appeal Communication to Board of Appeals and Interferences |
| <input checked="" type="checkbox"/> | Information disclosure statement | <input type="checkbox"/> | Letter to Draftsman | <input type="checkbox"/> | Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> | Form 1449 | <input type="checkbox"/> | Drawings | <input type="checkbox"/> | Status Letter |
| <input type="checkbox"/> | Copies of References | <input type="checkbox"/> | Petition | <input checked="" type="checkbox"/> | Postcard |
| <input type="checkbox"/> | Extension of Time Request * | <input type="checkbox"/> | Fee Address Indication Form | <input type="checkbox"/> | Other Enclosure(s) (please identify below): |
| <input type="checkbox"/> | Express Abandonment | <input type="checkbox"/> | Terminal Disclaimer | | |
| <input type="checkbox"/> | Certified Copy of Priority Doc | <input type="checkbox"/> | Power of Attorney and Revocation of Prior Powers | | |
| <input type="checkbox"/> | Response to Incomplete Appln | <input type="checkbox"/> | Change of Correspondence Address | | |
| <input type="checkbox"/> | Response to Missing Parts | *Extension of Term: Pursuant to 37 CFR 1.136, Applicant petitions the Commissioner to extend the time for response for xxxxx month(s), from to . | | | |
| <input type="checkbox"/> | Executed Declaration by Inventor(s) | | | | |

CLAIMS

| FOR | Claims Remaining After Amendment | Highest # of Claims Previously Paid For | Extra Claims | RATE | FEE |
|--------------------|----------------------------------|---|--------------|---------|---------|
| Total Claims | 0 | 0 | 0 | \$18.00 | \$ 0.00 |
| Independent Claims | 0 | 0 | 0 | \$86.00 | \$ 0.00 |
| Total Fees | | | | | \$ 0.00 |

METHOD OF PAYMENT

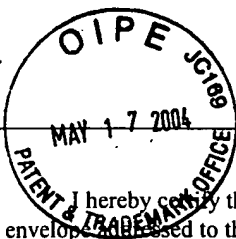
| | |
|-------------------------------------|--|
| <input type="checkbox"/> | Check no. _____ in the amount of \$ _____ is enclosed for payment of fees. |
| <input checked="" type="checkbox"/> | Charge any fees or credit any overpayment to Deposit Account No. <u>02-2120</u> (Sawyer Law Group LLP) |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | |
|---------------|-------------------------------------|
| Attorney Name | Janyce R. Mitchell, Reg. No. 40,095 |
| Signature | |
| Date | May 13, 2004 |


CERTIFICATE OF MAILING

| | |
|---|--------------|
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: May 13, 2004 | |
| Type or printed name | Jackie Tanda |
| Signature | |



CERTIFICATE OF MAIL

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on May 13, 2004.


Jackie Tanda

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Date: May 13, 2004

Paul NGUYEN, et al.

Confirmation No: 5493

Serial No.: 10/649,119

Group Art Unit: 2832

Filed: August 26, 2003

Examiner: To Be Assigned

For: MAGNETIC MEMORY ELEMENT UTILIZING SPIN TRANSFER
SWITCHING AND STORING MULTIPLE BITS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. §1.97

Sir:

Pursuant to 37 C.F.R. §1.97 and §1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. The Examiner is requested to make these documents of record. This Information Disclosure Statement is being submitted:

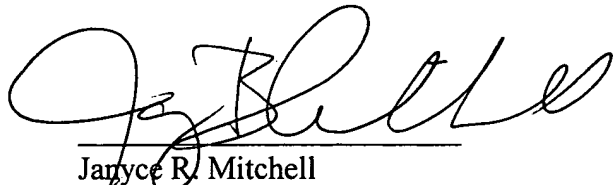
- ☒ With copies.
- ☐ Without copies. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial No. **, filed **. This protocol conforms with 37 C.F.R. §1.98(d) and M.P.E.P. 609 (A)(2).
- ☐ This Information Disclosure Statement is being submitted with only copies of non-U.S. patent publication(s) and non-patent literature. This protocol conforms with 37 CFR 1.98(a)(2)(i), which waives the requirement for submitting a copy of each cited U.S. Patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003.
- ☐ The documents listed on the attached Form PTO-1449 were cited in a Search Report directed to a counterpart international or foreign application.

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☒ Within three months of the application filing date, or before mailing of a first Office Action on the merits.
- ☐ Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
- ☐ After receipt of a first Office Action on the merits, but before the mailing date of a Final Office Action under §1.113, or a Notice of Allowance §1.311. Accompanied by one of:
 - ☐ Certification under 37 CFR §1.97(e); or
 - ☐ The fee set forth in §1.17(p)
- ☐ After mailing of a final Office Action or Notice of Allowance, but on or before payment of the issue fee. Accompanied by:
 - ☐ Certification under 37 CFR §1.97(e); and
 - ☐ The fee set forth in §1.17(p)
- ☐ A Certification under 37 C.F.R. §1.97(e) is provided below:
 - ☐ I hereby certify that each item of information was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
 - or-
 - ☐ I hereby certify that no item of information was cited in a communication from a foreign patent office in a counterpart foreign application or, to the best of my knowledge after making a reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein. If any unresolved issues remain, please contact Applicant's attorney at the telephone number indicated below.

Respectfully submitted,

SAWYER LAW GROUP LLP



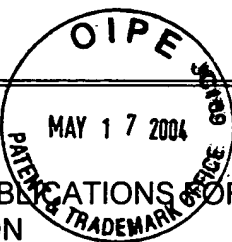
Janyce R. Mitchell
Attorney for Applicant(s)
Reg. No. 40,095
(650) 493-4540

May 13, 2004
Date

FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

(Use several sheets if necessary)



ATTY. DOCKET NO.

2808P

SERIAL NO.

10/649,119

APPLICANT:

Paul NGUYEN, et al.

FILING DATE:

August 26, 2003

GROUP:

2832

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

| EXAMINER INITIALS | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPRO.) |
|----------------------|--------------------|------|------|-------|----------|----------------------------|
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

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| | J.F. Albert, et al, "Polarized Current Switching of a CO Thin Film Nanomagnet", American Institute of Physics, Vol. 77, No. 23, December 4, 2000, pp. 3809-3811 |
| | J.A. Katine, et al, "Current-Driven Magnetization Reversal and Spin-Wave Excitations in Co/Cu/Co Pillars", the American Physical Society, Vol. 84, No. 14, April 3, 2000, pp. 3149-3151 |
| | E.G. Myers, et al, "Point-Contact Studies of Current-Controlled Domain Switching in Magnetic Multilayers" Journal of Applied Physics, Vol. 87, No. 9, May 1, 2000, pp. 5502-5503 |
| | J.C. Slonczewski, "Theory and Application of Exchange-Driven Switching", IEEE, April 2000, pp. CE-02 |
| | J.C. Slonczewski, "Current-Driven Excitation of Magnetic Multilayers", Journal of Magnetism and Magnetic Materials, 1996, pp. 1.1-1.7 |
| | J.C. Slonczewski, "Conductance and Exchange Coupling of Two Ferromagnets Separated by a Tunneling Barrier", The American Physical Society, Vol. 39, No. 10, April 1, 1999, pp. 6995-7002 |
| | J.Z. Sun, "Current-Driven Magnetic Switching in Manganite Trilayer Junctions", Journal of Magnetism and Magnetic Materials, No. 202, 1999, pp. 157-162 |
| | Daughton, et al., Patent Publication US2003/0007398 dated January 9, 2003 Figures 3, 4, 5A; Paragraphs 60, 61, 67, 68 |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.